

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application

Inventor(s): Patrick Chiu et al.

Appln. No.: 10/636,044

Confirm. No.: 9973

Filed: August 8, 2003

Title: PEER TO PEER GESTURE BASED
MODULAR PRESENTATION SYSTEM

PATENT APPLICATION

Art Unit: 2179

Examiner: Nicholas Augustine

Atty. Docket No.: FXPL-01060US0

Customer No. 23910

DECLARATION OF INVENTORS UNDER 37 C.F.R. § 1.131

1. We the undersigned, Patrick Chiu, Qiong Liu and John Steven Boreczky, declare as follows:
2. We are employees of FX Palo Alto Laboratories and specialize in computer software research and development.
3. We are the inventors of the invention described and claimed in the above U.S. patent application.
4. For convenience, embodiments of this invention hereafter are referred to as the "ModSlideShow".
5. For convenience, Claim 1 of the above application is set out below with elements (a)-(c) identified as follows:

A system for providing content in a modular presentation system, comprising:

- (a) a plurality of displays, wherein each display neighbors at least one other display and at least two of the plurality of displays are in visual proximity to each other;
 - (b) an input device that receives input of a gesture to move a content from a first display of the plurality of displays; and
 - (c) a processor, that interprets a direction to move the content from the first display based on the gesture, that specifies a second display to which the content is to be moved, based on the gesture and the position of the plurality of displays and that propagates the content of the first display to the second display.
6. A prototype of the "ModSlideShow" which for convenience we identify as "ModSlideShow1" was reduced to practice on or before April 18, 2002.

7. The “ModSlideShow1” prototype was implemented with a rear projector and touch screen plasma displays.
8. The “ModSlideShow1” prototype was implemented with laptops connected on a wireless network, where a location sensing system can detect the room location of a laptop.
9. The “ModSlideShow1” prototype integrated a digital compass with a laptop.
10. The “ModSlideShow1” prototype contained all the elements of Claim 1 as described and claimed in the above U.S. patent application.
11. The “ModSlideShow1” prototype comprises a plurality of displays, wherein each display neighbors at least one other display and at least two of the plurality of displays are in visual proximity to each other as claimed in Claim 1, element (a).
12. The “ModSlideShow1” prototype comprises an input device that receives input of a gesture to move a content from a first display of the plurality of displays as claimed in Claim 1, element (b).
13. The “ModSlideShow1” prototype comprises a processor that interprets a direction to move the content from the first display based on the gesture, that specifies a second display to which the content is to be moved, based on the gesture and the position of the plurality of displays and that propagates the content of the first display to the second display, as claimed in Claim 1, element (c).
14. For convenience, Claim 5 of the above application is set out below with elements (d)-(g) identified as follows:

A method of providing content in a modular presentation system having a plurality of displays, wherein at least two of the plurality of displays are, the method comprising:

- (d) receiving input of a gesture to move a first content presented on a first display of the plurality of displays;
 - (e) interpreting a direction to move the content from the first display based on the gesture;
 - (f) specifying a second display to which the first content is to be moved based on the gesture and the relative position of the plurality of displays; and
 - (g) presenting the first content at the second display and a second content at the first display.
15. The “ModSlideShow1” prototype contained all the elements of Claim 5 as described and claimed in the above U.S. patent application.
 16. The “ModSlideShow1” prototype is able to receive input of a gesture to move a first content presented on a first display of the plurality of displays as claimed in Claim 5, element (d).

17. The “ModSlideShow1” prototype is able to interpret a direction to move the content from the first display based on the gesture as claimed in Claim 5, element (e).
18. The “ModSlideShow1” prototype is able to specify a second display to which the first content is to be moved based on the gesture and the relative position of the plurality of displays as claimed in Claim 5, element (f).
19. The “ModSlideShow1” is able to present the first content at the second display and a second content at the first display as claimed in Claim 5, element (g).
20. For convenience, Claim 13 of the above application is set out below with elements (h)-(j) identified as follows:

A computer readable medium with instructions for execution by a computer for providing content in a modular presentation system having a plurality of displays, wherein at least two of the plurality of displays are in physical and visual proximity to each other, the instructions comprising:

- (h) receiving input of a gesture to move first content presented on a first display;
 - (i) interpreting a direction to move the content from the first display based on the gesture;
 - and
 - (j) presenting the first content at the second display and a second content at the first display.
21. The “ModSlideShow1” prototype contained all the elements of Claim 13 as described and claimed in the above U.S. patent application.
 22. The “ModSlideShow1” prototype is able to receive input of a gesture to move first content presented on a first display as claimed in Claim 13, element (h).
 23. The “ModSlideShow1” prototype is able to interpret a direction to move the content from the first display based on the gesture as claimed in Claim 13, element (i).
 24. The “ModSlideShow1” prototype is able to present the first content at the second display and a second content at the first display as claimed in Claim 13, element (j).
 25. A report on the “ModSlideShow: A Slide Presentation System for Peer to Peer Modular Displays with a Gestural Interaction Technique” was prepared on or before April 18, 2002.
 26. The report “ModSlideShow: A Slide Presentation System for Peer to Peer Modular Displays with a Gestural Interaction Technique” is shown in a redacted version as Exhibit ‘A’.

27. We signed the report on “ModSlideShow: A Slide Presentation System for Peer to Peer Modular Displays with a Gestural Interaction Technique” between the dates of April 18, 2002 and April 22, 2002.
28. A second prototype of the “ModSlideShow” which for convenience we identify as “ModSlideShow2” was reduced to practice on or before April 30, 2002.
29. The “ModSlideShow2” prototype included all the features of the “ModSlideShow1” prototype.
30. The “ModSlideShow2” prototype was implemented with a rear projector and touch screen plasma displays.
31. The “ModSlideShow2” prototype was implemented with laptops connected on a wireless network, where a location sensing system can detect the room location of a laptop.
32. The “ModSlideShow2” prototype integrated a digital compass with a laptop.
33. The “ModSlideShow2” prototype contained all the elements of Claim 1 as described and claimed in the above U.S. patent application.
34. The “ModSlideShow2” prototype comprises a plurality of displays, wherein each display neighbors at least one other display and at least two of the plurality of displays are in visual proximity to each other as claimed in Claim 1, element (a).
35. The “ModSlideShow2” prototype comprises an input device that receives input of a gesture to move a content from a first display of the plurality of displays as claimed in Claim 1, element (b).
36. The “ModSlideShow2” prototype comprises a processor that interprets a direction to move the content from the first display based on the gesture, that specifies a second display to which the content is to be moved, based on the gesture and the position of the plurality of displays and that propagates the content of the first display to the second display, as claimed in Claim 1, element (c).
37. The “ModSlideShow2” prototype contained all the elements of Claim 5 as described and claimed in the above U.S. patent application.
38. The “ModSlideShow2” prototype is able to receive input of a gesture to move a first content presented on a first display of the plurality of displays as claimed in Claim 5, element (d).
39. The “ModSlideShow2” prototype is able to interpret a direction to move the content from the first display based on the gesture as claimed in Claim 5, element (e).

40. The “ModSlideShow2” prototype is able to specify a second display to which the first content is to be moved based on the gesture and the relative position of the plurality of displays as claimed in Claim 5, element (f).
41. The “ModSlideShow2” is able to present the first content at the second display and a second content at the first display as claimed in Claim 5, element (g).
42. The “ModSlideShow2” prototype contained all the elements of Claim 13 as described and claimed in the above U.S. patent application.
43. The “ModSlideShow2” prototype is able to receive input of a gesture to move first content presented on a first display as claimed in Claim 13, element (h).
44. The “ModSlideShow2” prototype is able to interpret a direction to move the content from the first display based on the gesture as claimed in Claim 13, element (i).
45. The “ModSlideShow2” prototype is able to present the first content at the second display and a second content at the first display as claimed in Claim 13, element (j).
46. The “ModSlideShow2” prototype included the command propagation feature.
47. The date of creation of computer files that make up different modules involved in the “ModSlideShow2” prototype is shown in Exhibit B”.
48. The date of creation of the ModSlideShow.java file shown in Exhibit B” was April 22, 2002.
49. The date of creation of the GestRecognizer.class file shown in Exhibit B” was April 30, 2002.
50. The “ModSlideShow1” and “ModSlideShow2” prototypes were designed and constructed at the FX Palo Alto Laboratories, Palo Alto, California, United States of America.
51. The “ModSlideShow1” and “ModSlideShow2” prototypes were demonstrated at the FX Palo Alto Laboratories, conference room, in Palo Alto, California, United States of America.
52. The “ModSlideShow1” and “ModSlideShow2” prototypes were demonstrated to an internal FX Palo Alto Laboratories research and development team on or before March 25, 2003.
53. The undersigned, being hereby warned that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. §1001, and that such willful false statements may jeopardize the validity of the application or any resulting registration, declares that the facts set forth in this declaration are true; all statements made

of his/her own knowledge are true; and all statements made on information and belief are believed to be true.

2008-01-22
Date

Pat C.
Patrick Chiu

2008-01-22
Date

Qiong Liu
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22 JAN 2008
Date

John Steven Boreczky
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